

# Ashani Savinda Ranathunga

## List of Publications by Year in descending order

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Version: 2024-02-01

18  
papers

831  
citations

567281

15  
h-index

839539

18  
g-index

18  
all docs

18  
docs citations

18  
times ranked

685  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Sub- and super-critical carbon dioxide flow variations in large high-rank coal specimen: An experimental study. <i>Energy</i> , 2019, 181, 148-161.   | 8.8 | 11        |
| 2  | Experimental investigation of the influence of CO <sub>2</sub> and water adsorption on mechanics of coal under confining pressure. <i>International Journal of Coal Geology</i> , 2019, 209, 117-129.                         | 5.0 | 39        |
| 3  | The influence of CO <sub>2</sub> saturation time on the coal gas flow: Fractured bituminous coal. <i>Fuel</i> , 2019, 240, 153-161.   | 6.4 | 14        |
| 4  | Variation of mechanical properties of bituminous coal under CO <sub>2</sub> and H <sub>2</sub> O saturation. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 61, 158-168.                                       | 4.4 | 32        |
| 5  | Effects of Water and Brine Saturation on Mechanical Property Alterations of Brown Coal. <i>Energies</i> , 2018, 11, 1116.   | 3.1 | 18        |
| 6  | Effect of Coal Rank on CO <sub>2</sub> Adsorption Induced Coal Matrix Swelling with Different CO <sub>2</sub> Properties and Reservoir Depths. <i>Energy &amp; Fuels</i> , 2017, 31, 5297-5305.                               | 5.1 | 36        |
| 7  | An experimental investigation of coupled chemico-mineralogical and mechanical changes in variably-cemented sandstones upon CO <sub>2</sub> injection in deep saline aquifer environments. <i>Energy</i> , 2017, 133, 404-414. | 8.8 | 17        |
| 8  | Investigation of relative flow characteristics of brine-saturated reservoir formation: A numerical study of the Hawkesbury formation. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 45, 609-624.              | 4.4 | 5         |
| 9  | A macro-scale view of the influence of effective stress on carbon dioxide flow behaviour in coal: an experimental study. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2017, 3, 13-28.                | 2.9 | 38        |
| 10 | An experimental investigation of applicability of CO <sub>2</sub> enhanced coal bed methane recovery to low rank coal. <i>Fuel</i> , 2017, 189, 391-399.  | 6.4 | 82        |
| 11 | A Review of CO <sub>2</sub> -Enhanced Oil Recovery with a Simulated Sensitivity Analysis. <i>Energies</i> , 2016, 9, 481.   | 3.1 | 127       |
| 12 | Effect of Coal Rank on Various Fluid Saturations Creating Mechanical Property Alterations Using Australian Coals. <i>Energies</i> , 2016, 9, 440.   | 3.1 | 26        |
| 13 | Gas Transportation and Enhanced Coalbed Methane Recovery Processes in Deep Coal Seams: A Review. <i>Energy &amp; Fuels</i> , 2016, 30, 8832-8849.   | 5.1 | 114       |
| 14 | Influence of CO <sub>2</sub> adsorption on the strength and elastic modulus of low rank Australian coal under confining pressure. <i>International Journal of Coal Geology</i> , 2016, 167, 148-156.                          | 5.0 | 61        |
| 15 | Super-critical CO <sub>2</sub> saturation-induced mechanical property alterations in low rank coal: An experimental study. <i>Journal of Supercritical Fluids</i> , 2016, 109, 134-140.                                       | 3.2 | 80        |
| 16 | A macro-scale experimental study of sub- and super-critical CO <sub>2</sub> flow behaviour in Victorian brown coal. <i>Fuel</i> , 2015, 158, 864-873.   | 6.4 | 42        |
| 17 | Optimization of enhanced coal-bed methane recovery using numerical simulation. <i>Journal of Geophysics and Engineering</i> , 2015, 12, 90-107.   | 1.4 | 30        |
| 18 | Deep coal seams as a greener energy source: a review. <i>Journal of Geophysics and Engineering</i> , 2014, 11, 063001.  | 1.4 | 59        |